

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 June 2004 (03.06.2004)

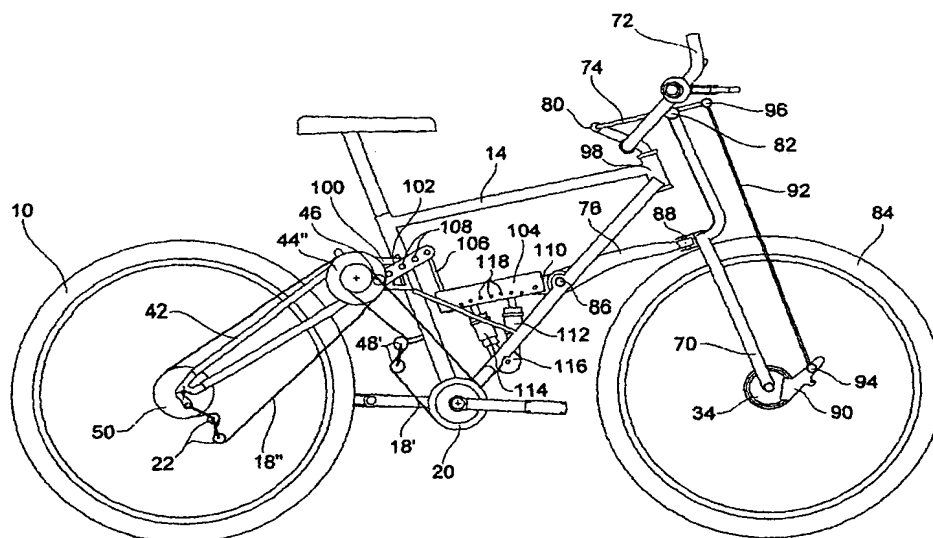
PCT

(10) International Publication Number
WO 2004/045940 A2

- (51) International Patent Classification⁷: **B62K**
- (21) International Application Number:
PCT/GB2003/005078
- (22) International Filing Date:
21 November 2003 (21.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
- | | | |
|-----------|--------------------------------|----|
| 0227191.4 | 21 November 2002 (21.11.2002) | GB |
| 0227193.0 | 21 November 2002 (21.11.2002) | GB |
| 0320995.4 | 9 September 2003 (09.09.2003) | GB |
| 0322096.9 | 20 September 2003 (20.09.2003) | GB |
- (71) Applicant (for all designated States except US): **TOP-TRAIL LIMITED** [GB/GB]; Water Side, Preston Bagot, Henley-in-Arden, Warwickshire B95 5ED (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **GRIFFITHS, Adrian, Michael** [GB/GB]; Water Side, Preston Bagot, Henly-in-Arden, Warwickshire B95 5ED (GB).
- (74) Agent: **WATTS, Peter, Graham; Anthony Cundy & Co.**, 1 Olton Bridge, 245 Warwick Road, Solihull B92 7AH (GB).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: SUSPENSION SYSTEMS



(57) Abstract: A suspension system for a vehicle with a chain driven rear wheel includes; a rear suspension assembly and chain driven transmission arrangement that offers very high levels of anti-brake lift and anti-squat and does so consistently through a large range of rear suspension movement; a front suspension assembly/steering system with a steering axis inclined in the side view at an angle of castor which intersects the ground in front of the centre of the contact patch, the front suspension assembly having a high degree of anti-brake dive; the front and rear suspension assemblies being interconnected in such a way as to offer low resistance to anti-phase motion and higher resistance to in-phase motion.

WO 2006/045940 A2



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.